

Figure 1

A.

```

1  MEDLDQSPLV SSSDSPPRPQ PAFKYQFVRE PEDEEEEEEE EEDEDEDELE
51  ELEVLERKPA AGLSAAPVPT APAAGAPLMD FGNDFVPPAP RGPLPAAPPV
101 APERQPSWDP SPVSSTVPAP SPLSAAAVSP SKLPEDDEPP ARPPPPPPAS
151 VSPQAEPVWT PPAPAPAAPP STPAAPKRRG SSGSVVVDLL YWRDIKKTGV
201 VFGASLFLLL SLTVFSIVSV TAYIALALLS VTISFRIYKG VIQAIQKSDE
251 GHPFRAYLES EVAISEELVQ KYSNSALGHV NCTIKELRRL FLVDDLVDSL
301 KFAVLMWVFT YVGALFNGLT LLILALISLF SVPVIYERHQ AQIDHYLGLA
351 NKNVKDAMAK IQAKIPGLKR KAE

```

B.

```

1  NSP-B  MAAEDALPSG YVSFGHVGGP PPSPASPSIQ YSILREEREA ELDSE..... 50
    SPERP ..MEDLDQSP LVS....SSD SPPRPQPAFK YQFVREPEDE EEEEEEEEEED
    51
101 NSP-B  ..... LIIESCDASS ASEESPKREQ DSPPMK.... ..PSALDAIR
    SPERP EDEDLEELEV LERKPAAGLS AAPVPTAPAA GAPLMDFGND FVPPAPRGPL
    101
151 NSP-B  EETGVRAEER APSRRGLAEP GSFLDYPSTE PPGPELPPG DGALEPETEM
    SPERP PAAPPVAPER QPSWDPSVPS STV...PAPS PLSAAAVSPS KLPEDDEPPA
    151
201 NSP-B  LPRKPEEDSS SNQSPAATKG EGPLGPGAPP PLLFLNKQKA .....IDLL
    SPERP RPPPPPPASV SPQAEPVWTP PAP.APAAPP STPAAPKRRG SSGSVVVDLL
    201
251 NSP-B  YWRDIKQTGI VFGSFLLLLF SLTQFSVVSV VAYLALAALS ATISFRIYKS
    SPERP YWRDIKKTGV VFGASLFLLL SLTVFSIVSV TAYIALALLS VTISFRIYKG
    251
301 NSP-B  VLOAVOKTDE GHPFKAYLEL EITLSQEQIQ KYTDCLQFYV NSTLKELRRL
    SPERP VIQAIQKSDE GHPFRAYLES EVAISEELVQ KYSNSALGHV NCTIKELRRL
    301
351 NSP-B  FLVQDLVDSL KFAVLMWLLT YVGALFNGLT LLLMAVVSMF TLPVVYVKHQ
    SPERP FLVDDLVDSL KFAVLMWVFT YVGALFNGLT LLILALISLF SVPVIYERHQ
    351
383 NSP-B  AQIDQYLGLV RTHINAVVAK IQAKIPGAKR HAE
    SPERP AQIDHYLGLA NKNVKDAMAK IQAKIPGLKR K

```

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C.

```

      FLIP
LfLTlFVMaPvfeeiYdrahqplldalsniislqealdkglePlReFmlk
                                + ++iy+ ++q +++                +d+g   P+R
++
      SPERP      233 -----ISFRIYKGVIQAIQK-----SDEG-
HPFRAYLES 260

```

```

FLIP
htdekh.elalFmrsareerlwPkemkaatlEkddLlvLiPAFvISELkr
          +      +++++      +sa          +      t++
EL+r
  SPERP          261 EVAISEeLVQKYSNSA-----LGHVNCTIK-----
ELRR 289

```

```

      FLIP
AFeIGFLiYLPFiVIDLVVAsiLMAMGMmMvpPvtISLPFKLlLFV....
                                F+V DLV                                SL F 1 V
+
      SPERP      290 -----LFLVDDLVD-----
SLKFAVLMWVftyv 312

```

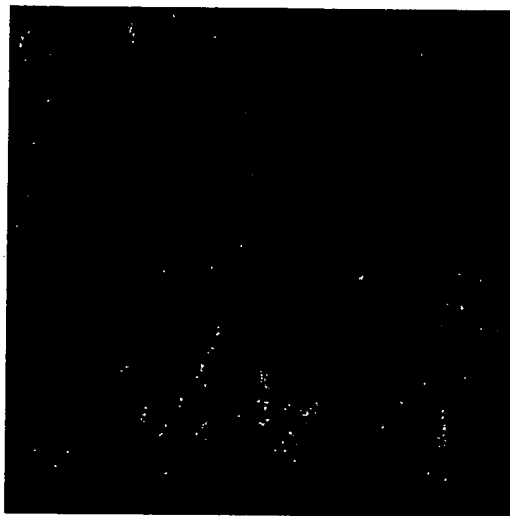
```

FLIP          ..LvDGWtLLlgLv
              + L +G tLL+  L+
SPERP        313 gaLFNGLTLLILALI      327

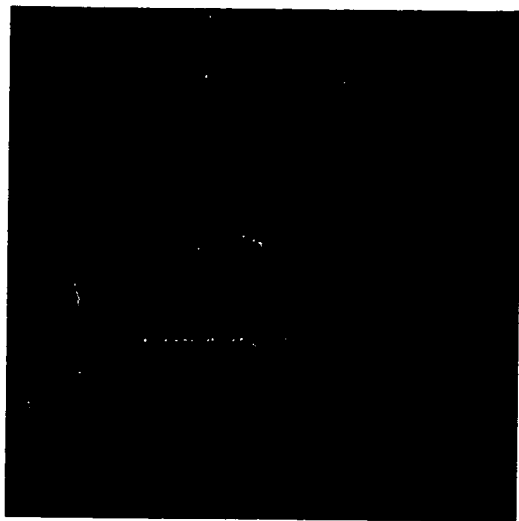
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Figure 2

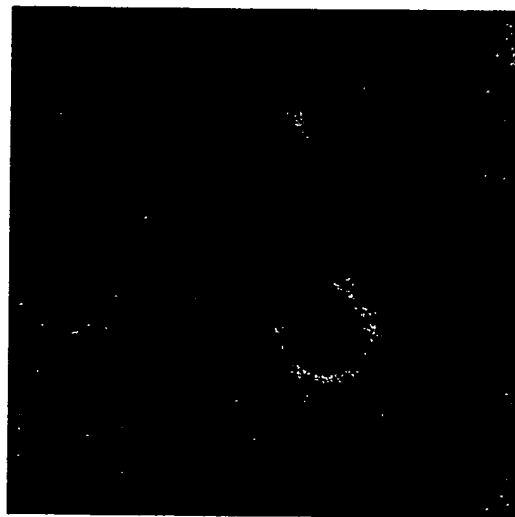
A



B



C



D

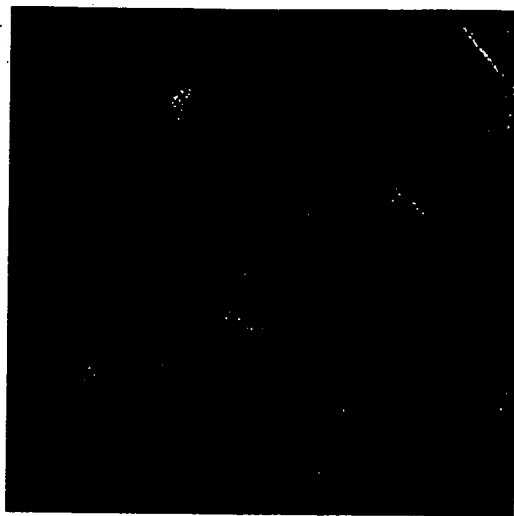


Figure 2

E.

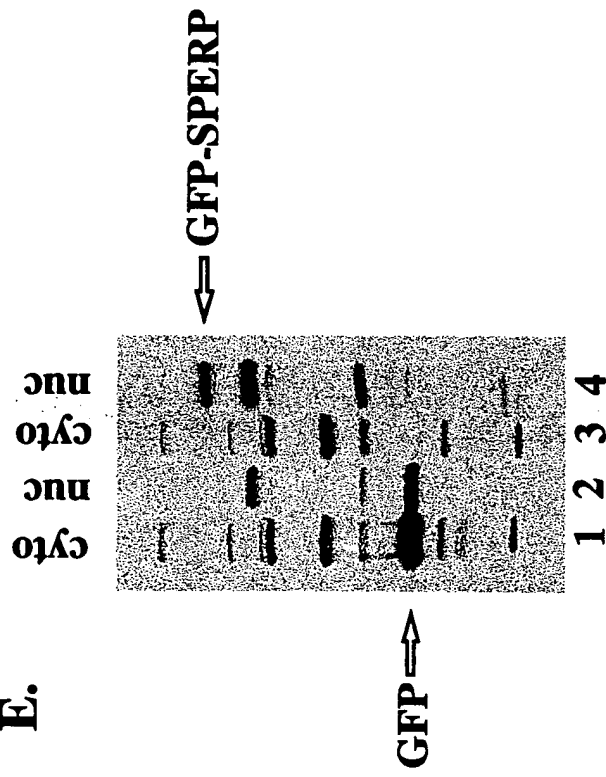


Figure 3

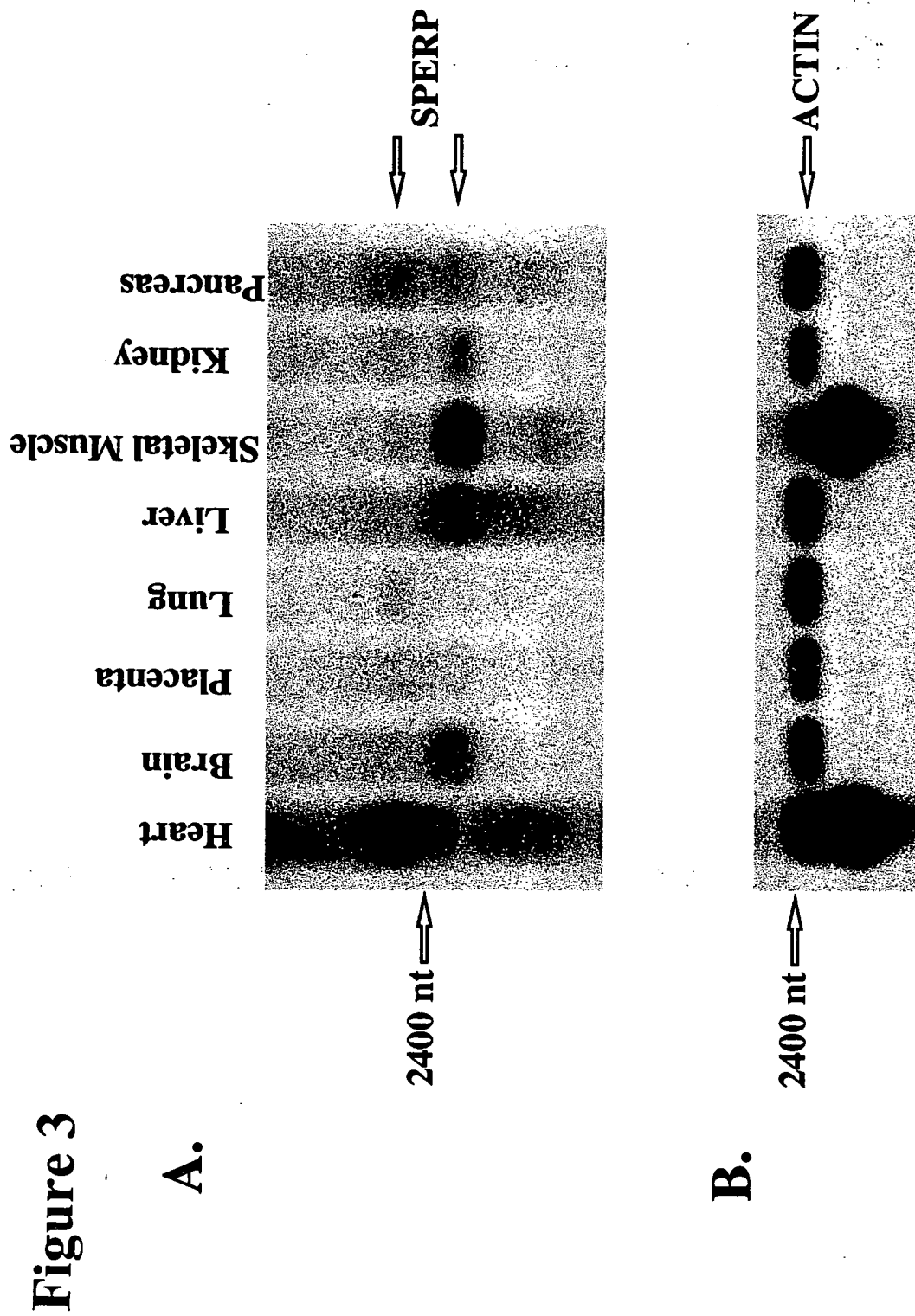
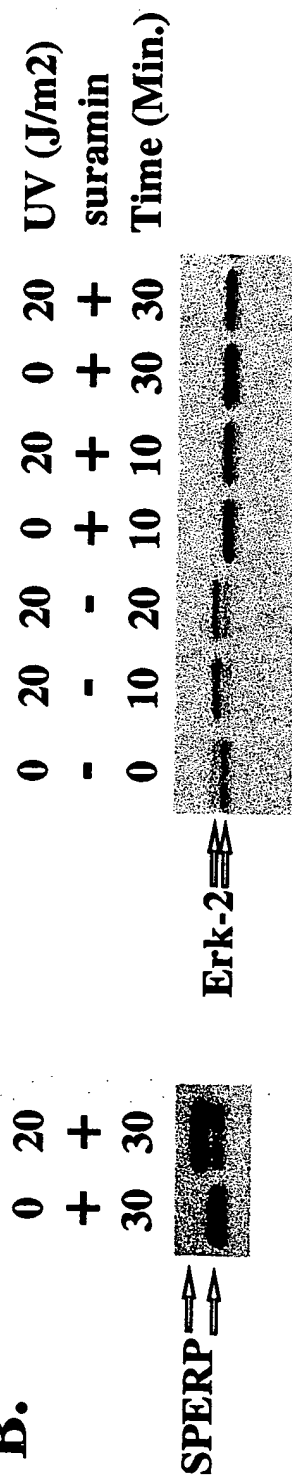


Figure 4

A.



B.



C.

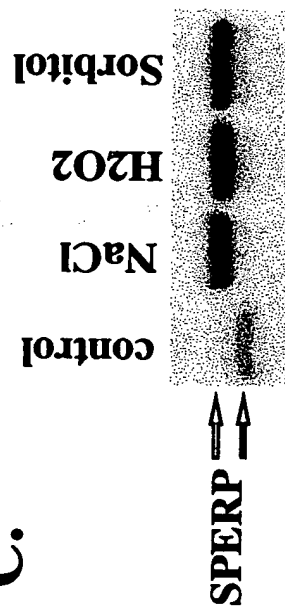


Figure 5

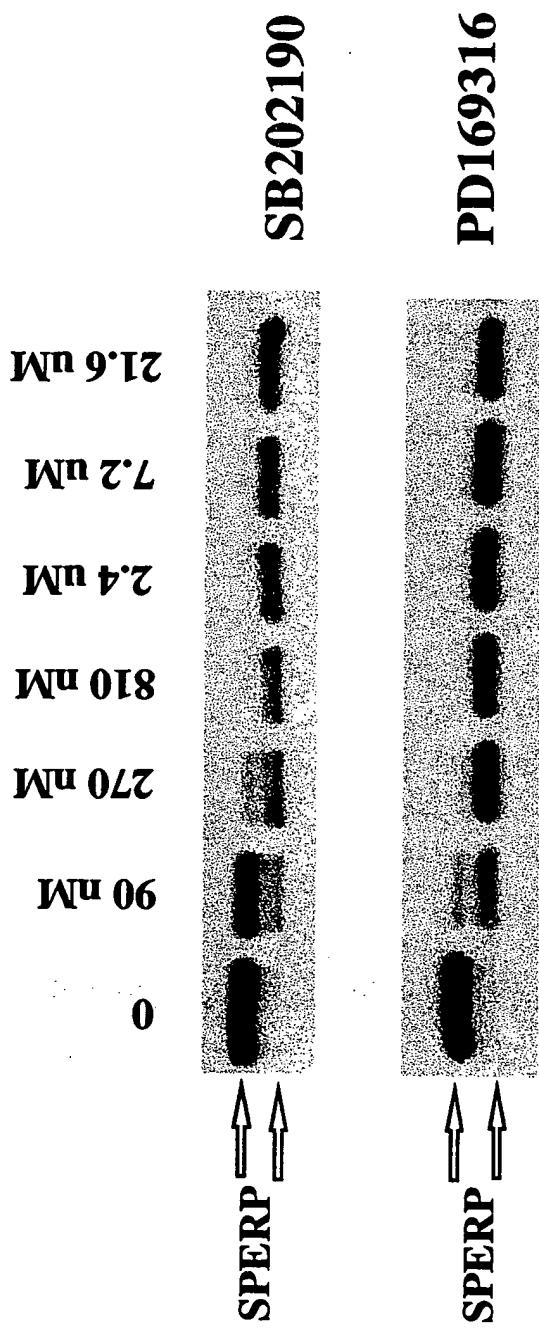


Figure 6

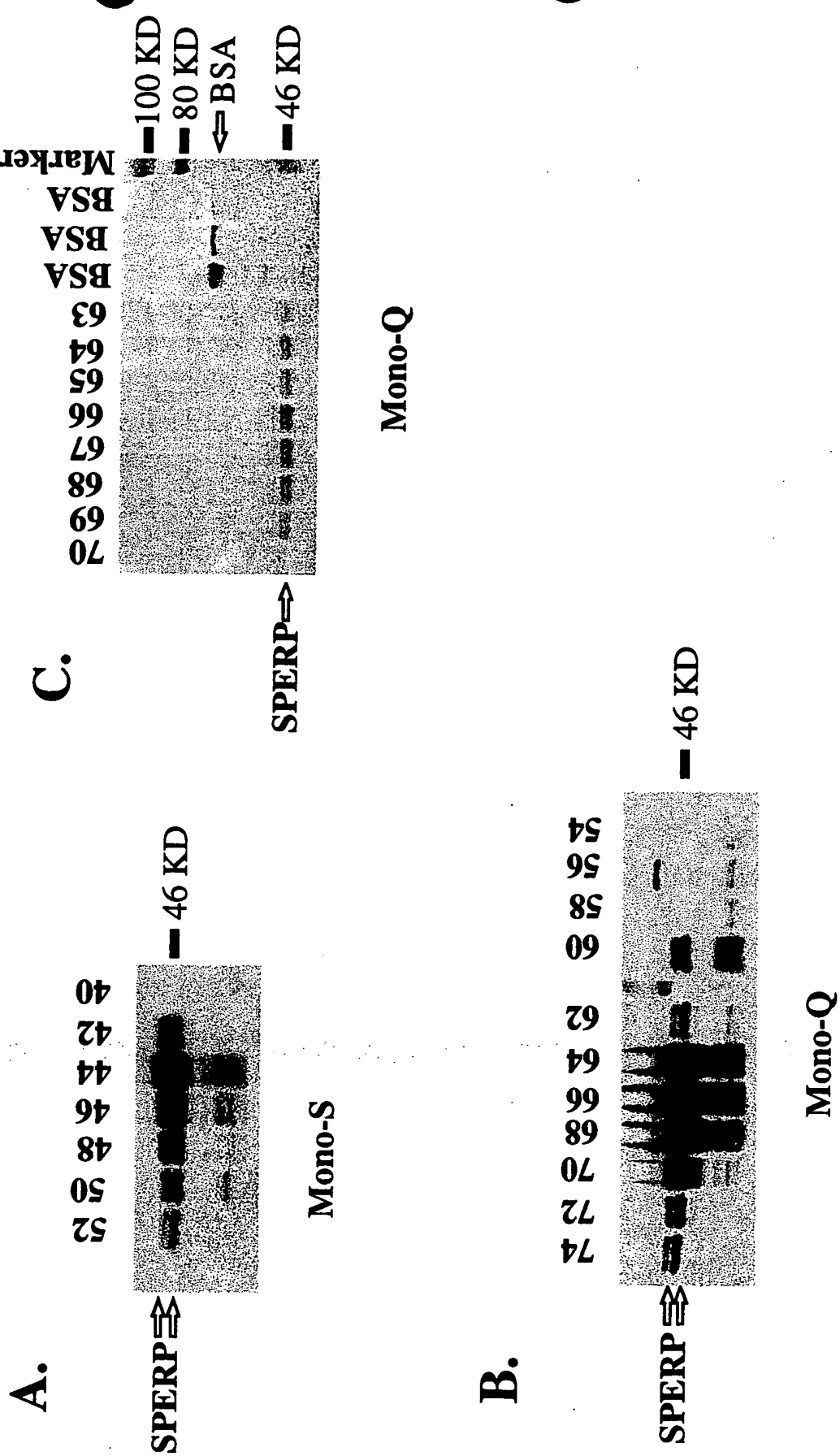
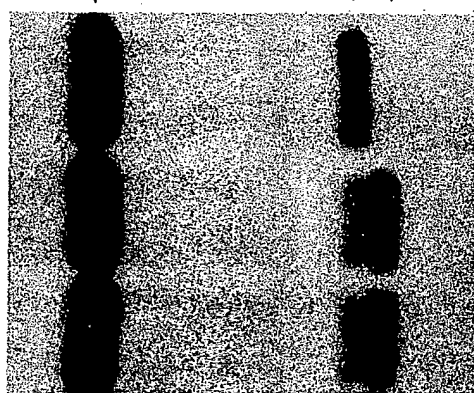


Figure 7

A.

0	20	20	50	UV (J/m ²)
0	20	20	50	Time (Min)

SPERP ⇨⇨



Cdc2 ⇨

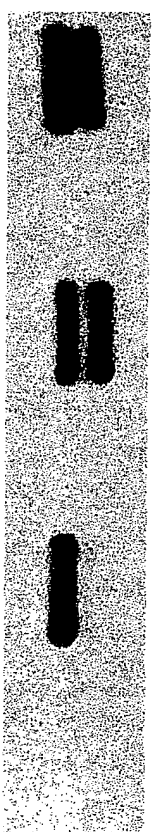


— 33 KD

B.

Senescing nuc	Senescing cyto	G1-20 nuc	G1-20 cyto	G1-0 nuc	G1-0 cyto
---------------	----------------	-----------	------------	----------	-----------

SPERP ⇨⇨



C.

+	-	-	-	-	-	vanadate
-	-	-	0	1	2	5
						CIAP

SPERP ⇨⇨

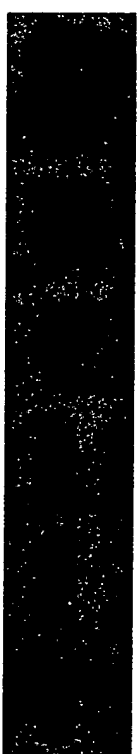


Figure 8.

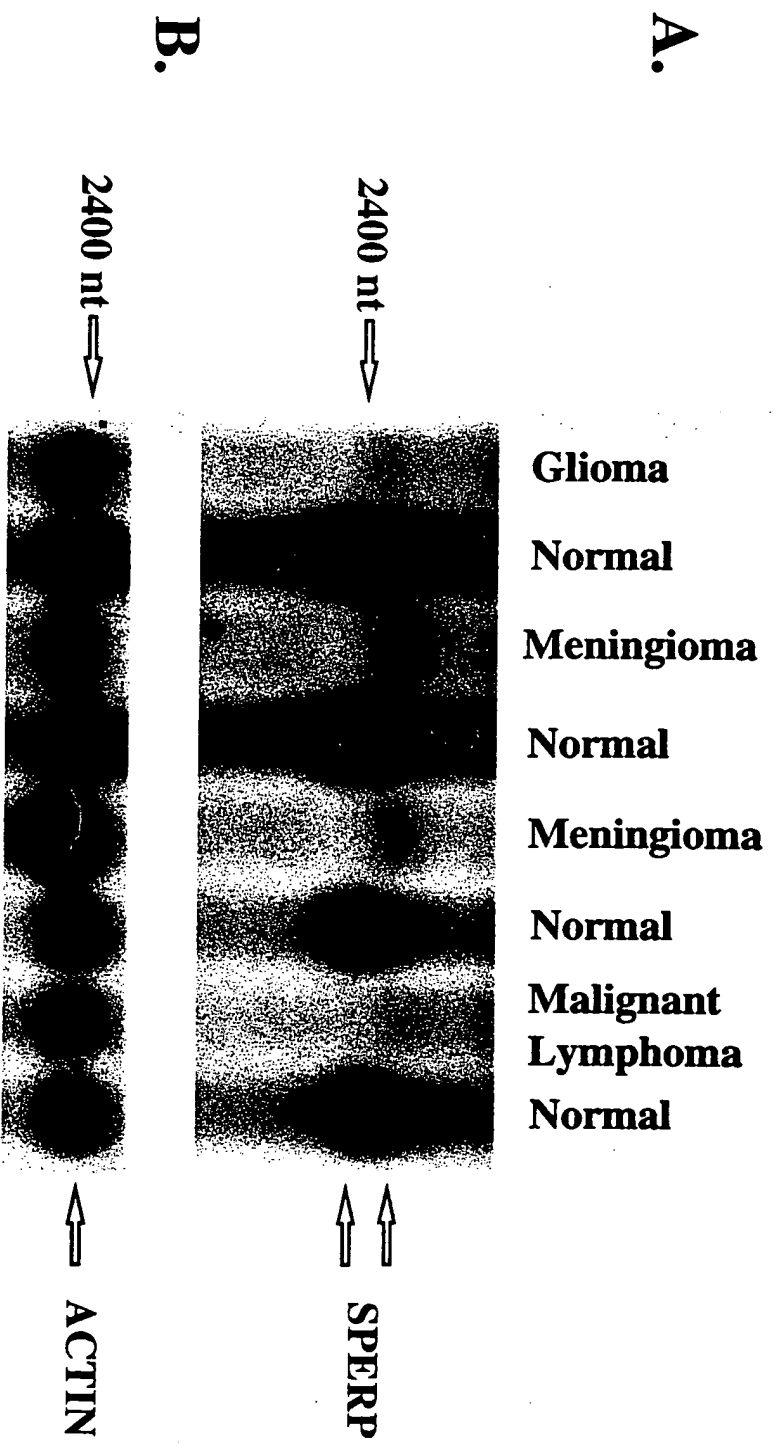
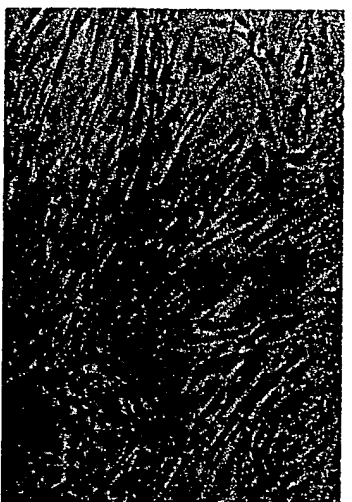
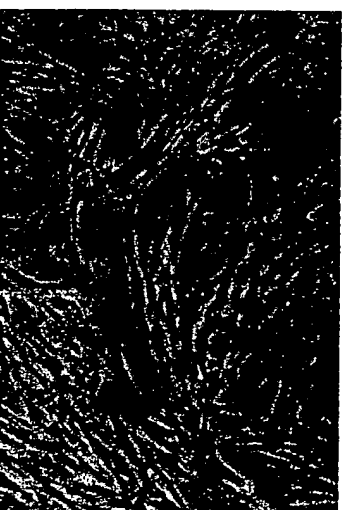


Figure 9 A



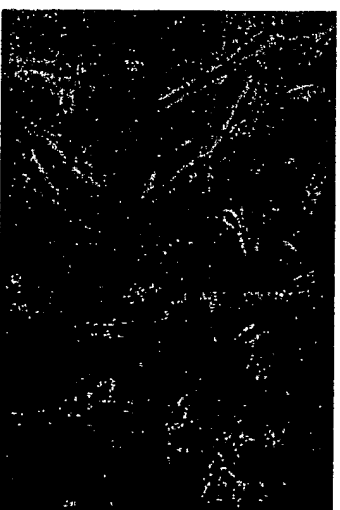
FTIC



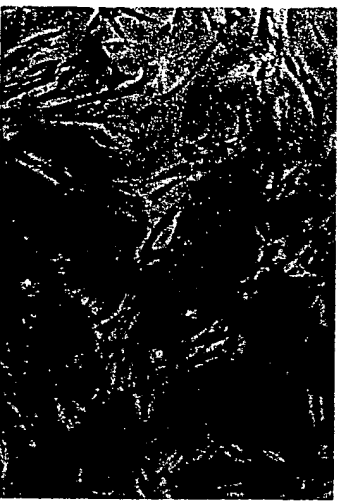
Control



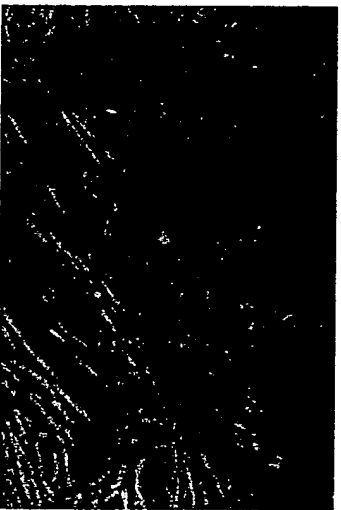
AS-1



AS-2



AS-3

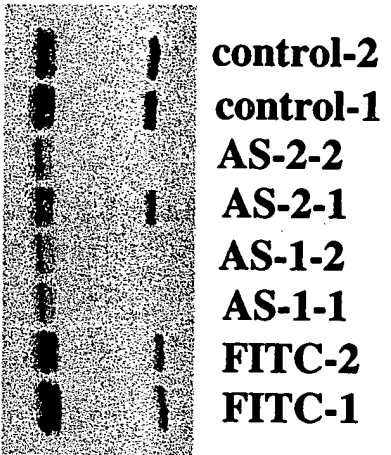


AS-4

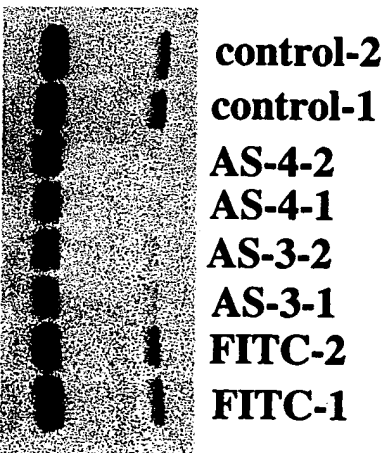
Figure 9 A shows six micrographs of cell cultures. The top row shows FTIC and Control. The middle row shows AS-1 and AS-2. The bottom row shows AS-3 and AS-4. All cultures show a dense, confluent monolayer of cells with a spindle-shaped morphology.

Figure 9

B.



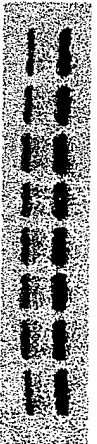
↑ SPERP ↓



C.



↑ GRP94 ↓



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